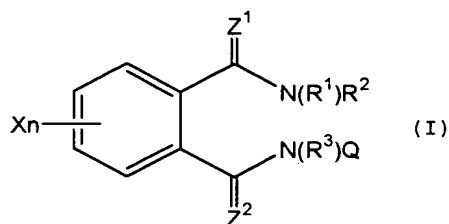


ABSTRACT

Heterocyclic amine derivatives represented by general formula (I):



wherein R^1 , R^2 and R^3 represent each H, optionally halogenated C_{3-6} cycloalkyl, etc.; Q represents an optionally substituted heterocycle containing O, S or N; X represents halogeno, cyano, halo(C_{1-6})alkyl, etc.; n is from 1 to 4; and Z^1 and Z^2 represent each O or S; and intermediates thereof represented by the following general formula (IV'): $Q'-NH_2$ wherein Q' represents a definite heterocycle selected from among those represented by Q. Agricultural/horticultural insecticides having a remarkable effect of controlling pest insects of crops such as rice, fruit trees and vegetables, as well as various agricultural, forestry, horticultural and stored grain pest insects.